

**AR09977PU-N****E. coli Superoxide Dismutase 2 / SOD2 (1-206, His-tag) - Purified****Alternate names:**

Manganese Superoxide Dismutase, Mn Superoxide Dismutase, Mn-SOD, MnSOD, SOD-2, sodA

**Quantity:**

0.1 mg

**Background:**

Superoxide dismutase, Mn, also known as sodA (E.coli), is a member of the iron/manganese superoxide dismutase family. SodA destroys radicals which are normally produced within the cells and which are toxic to biological systems. It works by catalyzing the dismutation of the superoxide radical O<sub>2</sub><sup>-</sup> to O<sub>2</sub> and H<sub>2</sub>O<sub>2</sub>, which are then metabolized to H<sub>2</sub>O and O<sub>2</sub> by catalase and glutathione peroxidase.

**Uniprot ID:**[P00448](#)**NCBI:**[AP\\_003900](#)**GenID:**[948403](#)**Species:**

E. coli

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >95%**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl**Description:**

Recombinant E.coli Superoxide dismutase protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK HHQTYVNNAN  
AALESLEPEFA NLPVEELITK LDQLPADKKT VLRNAGGHA NHSLFWKGLK KGTTLQGLK  
AAIERDFGSV DNFKAEFEKA AASRFSGGWA WLVLKGDKLA VVSTANQDSP LMGEAISGAS  
GFPIMGLDVW EHAYYLKFQN RRPDYIKEFW NVVNWDEAAA RFAAKK

**Molecular weight:** 25.2 kDa (226aa) confirmed by MALDI-TOF**Storage:**

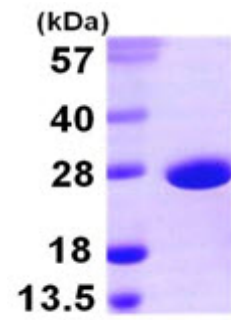
Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

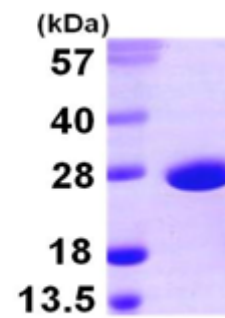
Shelf life: one year from despatch.

Pictures:

Recombinant E.coli Superoxide  
dismutase (sodA), 1-206 aa, His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)